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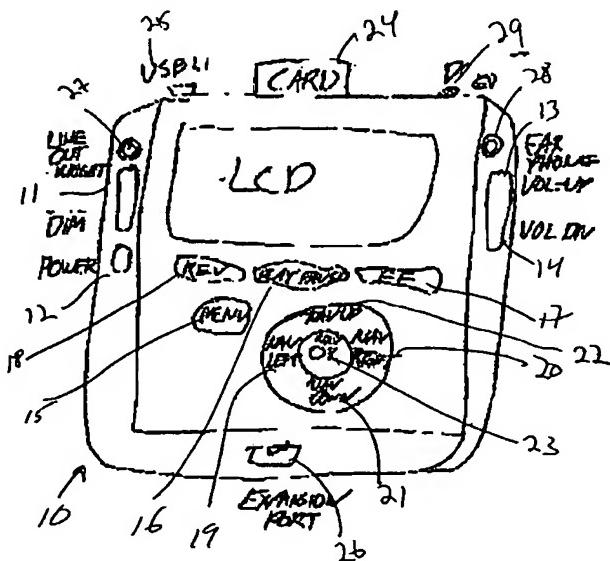
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(54) Title: METHOD AND APPARATUS FOR CODING INFORMATION



(57) **Abstract:** The invention provides a method and apparatus for coding information (fig. 5) that is specially adapted for smaller presentation formats, such as in a hand held video player (fig. 1). The invention addresses, *inter alia*, reducing the complexity of video decoding (55), implementation of an MP3 decoder (56) using fixed point arithmetic, fast YcbCr to RGB conversion, encapsulation of a video stream and an MP3 audio stream into an AVI file, storing menu navigation and DVD subpicture information on a memory card, synchronization of audio and video streams, encryption of keys that are used for decryption of multimedia data (fig. 3), and very user interface (UI) adaptations for a hand held video player that implements the improved coding invention herein disclosed.



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